FACILITIES INSPECTION SECTION INSPECTION REPORT FORM



Hame of Company_	Byon Core.		Date_	6-21-77
City South BE	<u>we</u> Co	unty ST Joseph	Telephone	: No
Persons Contacted	JAMES WICK	S , FLANT ENGINEER		
	- 1 · · · · · · · · · · · · · · · · · ·			
Purpose of Inspec	tion FAMILIANI	ZATICA'		
Products AIRCRAST A	LANGIA GEAR A.TER	MOTHE BROKES AND STEED. P.	1,-5 Jer	Laune fuer Controls
Ho. of Employees_	5814 Receiv	ring Stream CITY		
Source of water	CITY	No. of outfalls	2	
Sewage disposal	Weste flow 15 MGD			
Permit No. Now!		Certified Oper	stor	j. Sr C
Status:	Adequate	Insdequate		determined-Submitted

Description of production, manufacturing operations, waste treatment facilities, liquid waste disposal, cooling water additives, boiler treatments, permit compliance. General remarks, comments, recommendations, conclusions.

THERE ARE THREE PRISIONS OF THE SWAR BEAR LONATION; THE AIRCRAST BRAIL AND STRIT ELISION, THE ENERGY CONTROLS LOS THE THE ERARC ALL STEERING DIVISION. CALL IT THE PURE OF WILL BE DELISTED SEFFERTELY BUILD.

Aircore- Brace & S-R- Coses.
T- Binson EMPLOYS 1071 FECT-E. FRANT FORETIME INCOLLE ANCOIZ NS FLATING-RAS MRITHUMS PRESERVED. The LINGER LOS BUTO & SULFIFE ALIE ANDSIZE AND A CHROMIC ACID ANDRIZE. THE CONTENY BOES ENSOMICA PLATING IT STEEL PARTS, HARRICAT PLATNIC (WHILL IS MIRE LE RASEIZING) OF ALUMINUM PARTS, CHEMINE PLATING, BAS TITANION-CREMINE PLATING, PINSEWASERS FROM TIC ANDDIZING AND PLATING LINES GO TO THE CITY WITHER TREAT . VAN WINTERS EREGERS (FORMERLY ASSESSED DE.) PICKS UP ALL OF THE CHESCIPATED SOLVENTS WHILE ALL OF THE EMPLSION WASTE (GILLETE.) IS PICKED UP BY INDIPIA WASTE SYSTEM ENERGY CONTROLS

EC EMPLOYS 2091 PESPECE. THE MAIN PROJECT FROM THIS BIVISION IS AN JET FUL. CONTROL DEVICE , SIMILAR TO A CARBURETOR, RAW MATERIAL IS ALUMINUM DILLETS, PRIMARY

PLANT FUNCTIONS ARE SAND CASTINE, MACHININE, ASSEMBLY, PLUS SOME ANDDIZING AND IMMUNIZING. THE BINDER N THE CASTING SAND IS LINSE. OIL OR FISH DIL, THE AND 8/2 OS CHROMIC ACID AND THE IMMUNIZING IS NITRIC ACID (CAUSTIC - NOT RINSE - NITRIC ACID). THE LARGEST DISCHARGE OF WATER TO THE CITY IS NOW-CONTACT COOLING WATER FROM THE HEAT EXCHANGERS, WITH RINSEWATERS FROM THE ANDRIZER AND IMMUNIZER MAKING UP TIE REST OF THE FLOW FROM THIS AREA.

THERE IS A LARGE AMOUNT (5 40,000 GAZLONS) OF MZ FUEL OIL FUR TESTING OF EQUIPMENT BURIES IN This MREA. THE COMPANY WAS AN SPEC PLAN

BRAKE AND STEERING PINISIEN

THE BANKS & STEERING DIVISION MAKES RAKE LININGS AND STEERING MECHANISMS (STEERING COLUMNS, ETC). PLANT FUNCTIONS INCLUDE MACHINIS, NELDING, VACUUM PRESSING, ASSEMBLY, HEAT TREATING, AND ELECTRUPLATING (COPPER-NICKLITCHERING AND ZINC PLATING). WRITEWATER CONTROL WOULD BE CUPLING WATERS FROM THE TIP WELVING, UPCOLD PRESSING ALS ICAT TREATING AREAS, IN ALEMAN TO RINSEWATERS FROM THE TIP WELVING, UPCOLD PRESSING ALS ICAT TREATING AREAS, IN ALEMAN TO RINSEWATERS FROM THE PLATING OPERATION. THE RINGEON EMPLOYS 2652 PE-PLE.

FINI. NG S

MANY NOT BARE STATE WITH RESTECT TO EYANTE ISLATION, THERE WAS NO CURBIN BE PROVIDED AND CORRUS WERE STORED WITH STATE CHEMORY, INC. LINE DAKUE ALL, plants for the Chemoria, INC. LINE DAKUE ALL, plants for the Chemoria, INC. LINE DAKUE ALL THERE ARE BUT THERE WAS NO BREAKWATER TRAKER STICK BREEKA ATER MELERAL THE COMPANY WOLLD BE IN CIRCLE MANCE WITH THE "THE "TOTAL COLOR FOR THE STOREGE YARD WAS STILL BEFORE TOWARD ALL TOWARD A CATCH BASIN, WITH A SIGNIFICANT AMENDMENT OF OUR REINE BECARBLE TO THE STORE AND BASIC FOR ALL THE SYSTEM. SIMONE THE DAE THE MERE THE CHIP STOREGE AREA AND BASIC FORMER WAS STORED BASIC FOR THE STORE WAS STORED TO THE COLOR THE CHIP STOREGE AREA AND BASIC FORMER WAS STORED BASIC FOR STORE AREA AND BASIC FORMER WAS STORED BASIC TO BE CALLED BY DAY STORED TO STORE AREA AND BASIC FORMER WAS AND BASIC FOR AND BASIC FORMER WAS STORED BASIC TO BE CALLED BY DAY STORED TO STORE AREA AND BASIC FORMER WAS AND BASIC FOR AND BASIC FORMER BASIC FOR AND BASIC FORMER WAS AND BASIC FOR AND BASIC FOR AND BASIC FOR AND BASIC FORMER WAS AND BASIC FOR AND BASIC FOR AND BASIC FORMER WAS AND BASIC FOR AND BASIC.

LUNCLUSIONS

A LETTER WILL BE PEST REE CITING THE RELIEF PROFILERS AND REQUIRENCE.

CORRECTION.

Bendix Corporation South Bend, Indiana

Waste streams as suggested from Division of Land Pollution Control files and waste hauler reports. (Quantites are based on 1979-1980 reports.)

Asbestos containing fire brick
Paint Wastes (VM + P Naptha, aliphatic hydrocarbon solvent, Methyl Isobutyl Ketone, Ethanol and Mineral Spirits)

Tie Bar Wastes M.O.C.A. contaminated wastes (4,4-Methylene bis 2-Chloroaniline) Raw M.O.C.A wastes (approximately 30 gal/yr) Asbestos dust Asbestos pellets Asbestos Soluble Oil and Water Mixture (approximately 10,000 gal/mo) Hydroxide Sludge Chromium Spray Booth Paint Wastes Touch-up Paint Wastes Salt Bath Salts (Chloride salts?) Chromic Acid Zinc Hydroxide/Calcium phosphate sludge Lead Hydroxide/Lead sulfide sludge Wastewater treatment sludge (approximately 300 tons/yr) Iron/Zinc phosphate sludge Heat Treating Salts Chromic Acid contaminated fiberglass pit liner Chromic anodic tank clean-out Chrome plating tape Nickel waste T-mine cleanout Stoddard Solvents Foundry Sand (see below for analysis) Cadmium hydroxide sludge Ferro Cyanide and Cyanide wastes Naphtna

Bendix Corporation makes brakes, steering systems, brake components and streets for automobiles and airplanes. They notified on 17 sites, including their plant at 401 Bendix Drive, South Bend, Indiana. The other 16 properties are off-site and under private ownership. The site names, dates, and addresses are:

St. Joseph County Landfill, Jackson and Locust Roads, 1940-70 St. Joseph County Landfill, U.S. 31 and Ireland, 1969-1971 Dollar Lake Site, SR 23 and Mayflower Road, Early to mid 1960's Area West of Bendix Oil Tank, Linden Avenue, 1940-1970 Beck's Lake Site, Colfax and Kaley Streets, until mid 1950's Butternut Road Site, Butternut and Douglas Roads, 6 months in 1955-1960

Former City/County Landfill, Bendix Drive North of Lincolnway West, until early 1960's
Fillmore Road North Site, Fillmore Road West of Mayflower,
1 to 1 1/2 years in mid 1950's
Douglas Road Site, Douglas and Bendix Drive, 1960s to closure
Linden Road Site, Linden and Chippewa Roads, 30 days, 1970's
Pine Road Site, Pine and Fillmore Roads, mid 1960's
Sample Street Lagoon Site, 3300 West Sample Street, 1956-1972
Speeks Site, Bendix Drive and Douglas Road, mid 1960's thru
early 1970's
South Bend Avenue Site, South Bend and Twy Kenham Avenue, unknown
Schuman Dump Site, Mayflower and Ireland Road, 1960-1970
Western Avenue Site, Elmer, Huron, Hollywood and Ford, unknown
All St. Joseph County-All South Bend

The Bendix Corporation has operated from approximately 1930 to the present time, although off-site disposal was halted sometime around 1973. The disposal dates are approximate in most cases and represent a "best effort" by the company prior to their filing in March of 1984.

Foundry Sand, (in ppm) phenols, 1.2-to-4.6 Naphthalene, .460-to-2.400 Phenanthrene. .2 Zinc, .43-38 Selenium, .08 Methylene Chloride, .012-to-9.2 TCE, .039 1,1,2,2-Tetrochlorethylene, .016 Butylbenzylphalatate, .6-to-.270 Arsenic, 17 Cadmium, 1.0-to-.01 Copper, 12 Lead, 14 Chromium, 6.7 Nickel, 3.4 Manganese, .053 Bis (2-ethylhexyl) phthalate, .680-to-.220 Toluene, .057 Pentachlorophenol, .520 1,3-Isobenzofurandione, 310

These numbers show some ranges resulting from many samplings at various dates. Note that cyanides, sulfates and chlorides were not run on these samples.

1976 Bendix Liquid Waste Removal Record

```
201,600 gallons emulsion
 60,070 gallons Trichlorethylene (TCE) sludge
 10,000 gallons Sodium Dichromate Waste
  3,300 gallons Laquer Thinner Waste
  1,500 gallons Copper Cyanide Stripper Waste
 15,200 gallons Chromic Acid Waste
    715 gallons Copper, Nickel and Cyanide Waste
    825 gallons Cadmium Cyanide Waste
    605 gallons methylene chloride
214,000 pounds Triad Sludge (unknown components)
 33,225 gallons cyanide
  1,045 gallons methyl chloroform
    220 gallons Perchlorethylene
      3 Transformers
     3 Capacitors
  1,265 gallons PCB oil
   550 gallons PCB sludge
  1,040 cubic yards/yr foundry sand (*see analysis other page in packet)
```

This is a tally of Bendix Corporation Liquid Waste Hauler reports for the year of 1976 to get an idea of wastes disposed of. This could be considered to be a representative sampling of the waste haulers reports and indicative of wastes possibly disposed of prior to 1973 or 1974 when their disposal practices were revised. Since many of the sites Bendix notified on fall into the period prior to 1973-4, this is a means to look at quantities and types of wastes possibly disposed of into off-site private and city/county facilities.

SB/sk